

What is claimed is:

1. A composite fire stop article comprising.

- 5           (a)     an interior insulating material; and
- (b)     an intumescent material arranged around at least a portion of said  
             interior material, said intumescent material consisting essentially of  
             filler material, binder material, and a hydrated alkali metal silicate  
10           intumescent component;

             whereby at least one fire stop article can be used to fire stop an opening in a  
             partition, said opening having an area of greater than 300 square inches and having  
             a concrete substrate for adhesion, said fire stop being capable of passing a hose  
15           stream test in accordance with ASTM Test E814.

2. A fire stop article as defined in claim 1, wherein the intumescent material further  
includes organic char-forming components.

20       3. A fire stop article as defined in claim 2, wherein said interior insulating material  
comprises inorganic fibrous material.

             4. A fire stop article as defined in claim 3, wherein said inorganic fibrous material  
comprises at least one of fiberglass, mineral wool, refractory ceramic materials, and  
25           mixtures thereof.

             5. A fire stop article as defined in claim 3, wherein said inorganic fibrous material  
comprises mineral wool having a density of at least 4 pounds per cubic foot.

6. A fire stop article as defined in claim 1, wherein said interior insulating material has opposed first and second opposed major surfaces, and further wherein sheets of intumescent material are arranged adjacent each of said first and second surfaces.
- 5     7. A fire stop article as defined in claim 1, wherein each of said intumescent sheets is adhesively bonded with said insulating material first and second major surfaces.
8. A fire stop article as defined in claim 1, wherein each of said intumescent sheets bond to said insulating material upon exposure to a temperature of 1200 °F.
- 10     9. A fire stop article as defined in claim 1, further comprising an enclosure arranged around said intumescent material.
- 15     10. A fire stop article as defined in claim 9, wherein said enclosure is a polyethylene bag.
11. A composite fire stop article comprising:
- 20     (a)     an interior insulating material; and
- 25     (b)     an intumescent material arranged around at least a portion of said interior material, said intumescent material comprising filler material, binder material, and an intumescent agent substantially free of graphite.
12. A composite fire stop article as defined in claim 11, wherein said intumescent agent contains less than 10% by weight of graphite.
13. A composite fire stop device, comprising:
- 30     (a)     a first outer layer of intumescent material;

- (b) an interior layer of mineral wool arranged adjacent said first outer layer of intumescent material, said mineral wool having a density of at least 4 pounds per cubic foot;

5

- (c) a second outer layer of intumescent material arranged adjacent said interior layer of mineral wool opposite said first outer layer of intumescent material; and

- 10 (d) a sealed enclosure surrounding said layers of intumescent material and said layer of mineral wool;

each of said first and second intumescent layers consisting essentially of filler material, binder material, and a hydrated alkali metal silicate intumescent agent,  
15 wherein a plurality of said composite fire stop articles can be arranged in an opening having an area of at least 300 square inches and having a concrete substrate for adhesion, can pass the hose stream test according to ASTM Test E814.